



Case No. **62601**

**DIRECTOR, U.S. PATENT AND TRADEMARK OFFICE
WASHINGTON, DC 20231**

In re Application of: **MEARS**
Serial No.: **10/647,060**
Filed: **AUGUST 22, 2003**
For: **SEMICONDUCTOR DEVICE INCLUDING
BAND-ENGINEERED SUPERLATTICE**

Sir:

Transmitted herewith is an INFORMATION DISCLOSURE STATEMENT in the above-identified application.


1. ☒ This IDS is submitted under 37 C.F.R. § 1.97. No fee is required.
2. ☐ This IDS is submitted under 37 C.F.R. § 1.97(c). Enclosed is a check in the amount of \$ 180.00.
3. ☐ This IDS is submitted under 37 C.F.R. § 1.97(c) and (e). No fee is required.
4. ☐ This IDS is submitted under 37 C.F.R. § 1.97(d) and (e). Enclosed is a check in the amount of \$ 130.00 to cover the petition fee.
5. ☒ The Commissioner is hereby authorized to charge or credit any discrepancies in fee amounts to Deposit Account No. 01-0484.
6. ☒ Please associate this application with Customer No. 27975.



27975

PATENT TRADEMARK OFFICE

Date: October 2, 2003


CHRISTOPHER F. REGAN
Reg. No. 34,906



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In ~~is~~ Patent Application of:)
MEARS)
Serial No. 10/647,060)
Filing Date: AUGUST 22, 2003)
For: SEMICONDUCTOR DEVICE INCLUDING)
BAND-ENGINEERED SUPERLATTICE)
_____)

CITATION UNDER 37 CFR §1.97

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

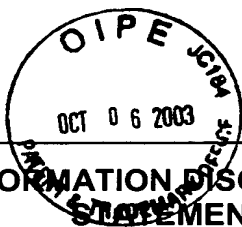
Attached is Form PTO-1449 listing several references for consideration in the examination of the above-identified application. A copy of each reference is also enclosed. It is requested that these references be considered by the Examiner and officially made of record in accordance with the provisions of 37 CFR §1.97 and Section 609 of the MPEP.

Respectfully submitted,

CHRISTOPHER F. REGAN
Reg. No. 34,906
Allen, Dyer, Doppelt, Milbrath
& Gilchrist, P.A.
255 S. Orange Avenue, Suite 1401
Post Office Box 3791
Orlando, Florida 32802
407/841-2330
Attorney for Applicants

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: **COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450**, on this 2nd day of October, 2003.



| | | |
|---|--------------|-----------------|
| INFORMATION DISCLOSURE STATEMENT | Atty Docket: | 62601 |
| | Serial No.: | 10/647,060 |
| | Applicant: | MEARS |
| | Filing Date: | AUGUST 22, 2003 |
| | Group: | |
| | | |

| U.S. PATENT DOCUMENTS | | | | | | | |
|--------------------------|----|-----------------|----------|---------------------|-------|-----------|-------------|
| Examiner Initials | | Document Number | Date | Name | Class | Sub Class | Filing Date |
| | AA | 4,594,603 | 06/10/86 | Holonyak, Jr. | 357 | 16 | 01/24/85 |
| | AB | 4,937,204 | 06/26/90 | Ishibashi et al. | 437 | 110 | 01/4/89 |
| | AC | 4,969,031 | 11/06/90 | Kobayashi et al. | 357 | 63 | 02/3/83 |
| | AD | 5,05,887 | 10/08/91 | Yamazaki | 357 | 4 | 01/18/90 |
| | AE | 5,216,262 | 06/1/93 | Tsu | 257 | 17 | 03/2/92 |
| | AF | 5,357,119 | 10/18/94 | Wang et al. | 257 | 18 | 02/19/93 |
| | AG | 5,684,817 | 11/04/97 | Houdre et al. | 372 | 45 | 05/1/96 |
| | AH | 5,683,934 | 11/4/03 | Candelaria | 437 | 134 | 05/3/96 |
| | AI | 5,994,164 | 11/30/99 | Fonash et al. | 438 | 97 | 03/18/98 |
| | AJ | 6,058,127 | 05/2/00 | Joannopoulos et al. | 372 | 92 | 12/12/97 |
| | AK | 6,274,007 | 08/14/01 | Smirnov et al. | 204 | 192 | 03/14/00 |
| | AL | 6,281,518 | 08/28/01 | Sato | 257 | 13 | 12/3/98 |
| | AM | 6,281,532 | 08/28/01 | Doyle et al. | 257 | 288 | 06/28/99 |
| | AN | 6,344,271 | 02/05/02 | Yadav et al. | 428 | 402 | 03/23/99 |
| | AO | 6,472,685 | 10/29/02 | Takagi | 257 | 77 | 12/2/98 |
| | AP | 6,498,359 | 12/24/02 | Schmidt et al. | 257 | 190 | 05/18/01 |
| | AQ | 2003/0034529 | 02/20/03 | Fitzgerald et al. | 257 | 369 | 10/8/02 |
| | AR | 2003/0057416 | 03/27/03 | Currie et al. | 257 | 19 | 09/20/02 |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | Document Number | Date | Country | Class | Sub Class | Translation |
| | AS | 02/103767 | 12/27/02 | WO | H01L | 21/20 | |
| | AT | 2,347,520 | 09/06/00 | GB | G02B | 5/18 | |
| | AU | | | | | | |

| | |
|------------------|-------------------------|
| EXAMINER: | DATE CONSIDERED: |
|------------------|-------------------------|

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



| | | |
|---|---|---|
| INFORMATION DISCLOSURE STATEMENT | Atty Docket: Serial No.: Applicant: Filing Date: Group: | 62601 10/647,060 MEARS AUGUST 22, 2003 |
| | | |

| OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.) | | |
|--|----|--|
| | AV | Xuan Luo et al.; "Chemical Design of Direct-Gap Light-Emitting Silicon", published July 25, 2002 by The American Physical Society; Vol. 89, Number 7 |
| | AW | R. Tsu; University of North Carolina at Charlotte, "Phenomena in Silicon Nanostructure Devices"; published 09/06/2000 © Springer-Verlag 2000 |
| | AX | P.D. Ye et al., "GaAs MOSFET with Oxide Gate Dielectric Grown by Atomic Layer Deposition"; © 2003 Agere Systems, March 2003 |
| | AY | Novikov et al.; "Silicon-based Optoelectronics" © 1999-2003 by John Wiley & Sons, Inc.; pp/ 1-6 |
| | AZ | |
| | BA | |

| | |
|--|-------------------------|
| EXAMINER: | DATE CONSIDERED: |
| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |